

MUT-5705 rad51a [line #2]

Cat. No. ALS-04695

Lot. No. (See product label)

Subcategory

Mutants

Description

Knock-out of rad51a (Cre14.g622850) in MUT-1883, resulting in deficiency of homologous recombination (HR) DNA repair. One of three rad51a lines deposited (MUT-5704, MUT-5705, MUT-5706). Knock-out generated using CRISPR/Cas12a and the 1.8 kb aphVIII antibiotic selection marker to disrupt the gene of interest, resulting in paromomycin resistance (paroR). HR deficiency was confirmed by hypersensitivity to DNA-damaging agents zeocin and mitomycin C, and the knock-out locus was sequence-verified. No off-target analysis was performed; may contain off-target edits and aphVIII integrations. Up to 10% DMSO may be added to the PCR to help amplify long GC-rich amplicons, in which case lower annealing temperatures by 3-5 °C. Deposited as part of 21 lines containing eight different DNA repair mutant genotypes (MUT-5701 to MUT-5721).

Species

Chlamydomonas

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